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(71)Applicant : SHOWA ELECTRIC WIRE &
CABLE CO LTD

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(72)Inventor : TAKEUCHI KENZO
OKADA TAKESHI

(54) HEAT-RESISTANT MEMBER

(57)Abstract:

PURPOSE: To obtain a heat-resistant member having high heat-resistance, corrosion resistance and peeling resistance by baking an organic acid metal salt on a substrate to form an amorphous thin film and applying and baking a coating material containing a polyborosiloxane resin, etc., and an inorganic filler on the amorphous film.

CONSTITUTION: An organic acid metal salt (e.g. aluminum octylate) is dissolved in a solvent and applied to a substrate (e.g. brass plate of 0.8mm thick) by a flow-coater, etc., and baked at 500°C to form an amorphous thin film on the substrate. A coating material produced by dissolving or dispersing one or more resins (e.g. polyborosiloxane resin, polycarbosilane resin, polysilastyrene resin, polytitanocarbosilane resin and polysilazane resin) and an inorganic filter (e.g. alumina) in a solvent is applied to the amorphous film layer by spray-coating and baked at 400°C for 10min to form a heat-resistant coating film and obtain the objective heat-resistant member having remarkably improved corrosion-proofing performance of the substrate while keeping the excellent heat-resistance of the coating film and resistant to the peeling of the coating film from the substrate even by heating at a high temperature over a long time.

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